

ORIGINAL

Joint Exhibit 1

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Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

AUG 20 1993FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

In re Applications of)	MM Docket No. 93-89
AURIO A. MATOS)	File No. BPH-911114MS
LLOYD SANTIAGO-SANTOS and LOURDES)	
RODRIGUEZ-BONET)	File No. BPH-911115MP
For Construction Permit for a New)	
Station on Channel 293A in)	
Culebra, Puerto Rico)	

To: Honorable Joseph P. Gonzalez
Administrative Law Judge

JOINT ENGINEERING STIPULATION AND EXHIBIT

Aurio A. Matos ("Matos") and Lloyd Santiago-Santos and Lourdes Rodriguez-Bonet ("Santiago and Bonet"), by their counsel respectfully submit the attached Joint Engineering Stipulation and Exhibit for admission into evidence in the above captioned hearing.

1. Pursuant to the Presiding Judge's Order, 93M-166, released April 15, 1993, August 20, 1993, was the date set for submission of the Final Engineering Exhibit in the above-captioned proceeding.

2. The parties stipulate that they have commissioned H. R. Irvin & Associates ("HRI") to review the engineering contained in the two application and verify the veracity of the data therein. HRI also verified the total area served by each of the two applicants and revised the population count by using data from the 1990 census, which was unavailable at the time the applications were filed in 1991.

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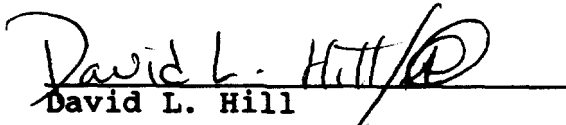


3. The parties further stipulate for the record that the proposed service area of each of the two applicants is already served by five or more aural services, therefore there is no "unserved area" issue for consideration. The only comparative coverage issue for consideration is the difference in total area and population served by the two applicants.

4. The parties stipulate that the data contained in the HRI study is accurate and is the data upon which findings of fact and conclusions of law shall be based, assuming the concurrence of the Mass Media Bureau.

WHEREFORE, it is respectfully requested that the Presiding Judge admit this Joint Engineering Stipulation and Exhibit as "Joint Exhibit 1"

**LLOYD SANTIAGO SANTOS AND
LOURDES RODRIGUEZ BONET**


David L. Hill

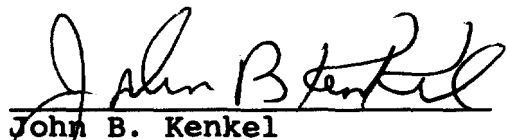
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August 20, 1993

Respectfully submitted,

AURIO A. MATOS


John B. Kenkel


Scott Cinnamon

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H. R. IRVIN & ASSOCIATES

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August 19, 1993

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In re: Joint Engineering Exhibit for
Culebra, PR Comparative Hearing
MM Docket No. 93 - 89

Dear Counselors:

At your request, I have performed an engineering study of the Lloyd Santiago-Santos and Lourdes Rodrigues Bonet (Santos) and the Aurio Matos Barreto (Barreto) FCC applications for Culebra, Puerto Rico, FM Channel 293A. I have performed a general review of the applicants engineering exhibits FCC Form 301, Section V-B. Further, I have performed a detailed review with respect to the land area and population as specified in item 17, page 17, FCC Form 301.

The following is a description of the methods used and the results obtained:

Methodology:

First, a general review of each application was performed with regard to the coordinates as plotted, the terrain analysis, and the HAAT and power (ERP) combination.

Second, the 60 dbu contour of each application was checked.

Third, the land area within the 60 dbu contour of each application was measured using a Placom Digital Planimeter model KP-90N. Three readings were taken and averaged for each application.

Fourth, the population within each applications 60 dbu contour was determined via the dataworld (DW, Inc. Bethesda, MD) computer program "POPCOUNT". The program retrieves the 1990 U.S. Census of population within a specified contour.

Results:

The engineering exhibits of both applications appear to meet the FCC's overall requirements.

The land area of the Santos application is 44 square kilometers.*

The land area of the Barreto application is 440 square kilometers.*

The Santos applications 1990 population is 1,542.

The Barreto applications 1990 population is 69,092.

* Due to the irregular boundaries of the islands, and the large map scale, the margin of error of the land area calculations is at least plus or minus ten percent.

Sincerely,



Howard R. Irvin III
Engineering Consultant

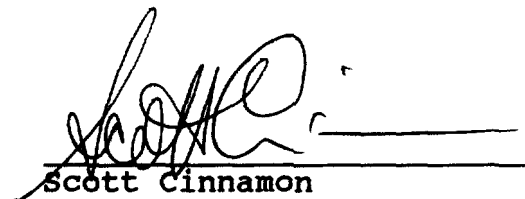
CERTIFICATE OF SERVICE

I, Scott Cinnamon, do certify that on this 20th day of August, 1993, a copy of the foregoing was sent via first class mail, postage pre-paid or delivered, as indicated, to the parties set forth below:

Honorable Joseph P. Gonzalez
Administrative Law Judge
Federal Communications Commission
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Scott Cinnamon

* - Hand delivered